

PATENT ABSTRACTS OF JAPAN

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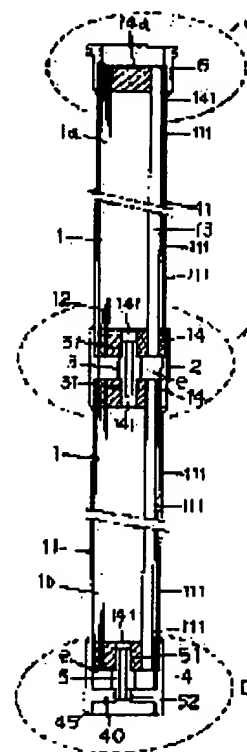
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(54) EXTERNAL PRESSURE TYPE HOLLOW YARN MEMBRANE MODULE OF SUSPENSION TYPE

(57)Abstract:

PURPOSE: To run the above membrane module with good filtration efficiency by joining membrane module units and a connecting cylinder by thermal fusing or an adhesive, inserting a connecting pipe across the through-holes of the respective resin partition walls of the upper and lower units to each other, sealing the connecting pipe and the respective through-holes by O-rings and occasionally washing the module by air scrubbing.

CONSTITUTION: Plural pieces of the external pressure type membrane module units 1 each constituted by housing a hollow yarn membrane bundle 12 and a water collecting pipe 13 into a cylindrical case 11, providing resin partition walls 14 having the through-holes 14 at both ends in the cylindrical case 11 and opening at least one end of the hollow yarn membrane 12 on the front surface of the resin partition walls 14 and the respective ends of the water collecting pipe 13 on the front surfaces of the resin partition walls 14, respectively, are disposed in the vertical direction. The connecting cylinder 2 is inserted between the ends of the cylindrical cases 11 of the upper and lower unit 1 to each other. The connecting cylinder 2 and the ends of the respective cylindrical cases 11 are joined by thermal fusing or the adhesive and the connecting pipe 3 is inserted across the through-holes 14 of the respective resin walls 14 of both units 1. The connecting pipe 3 and the respective through-holes 141 are sealed from each other with the O-rings 31.



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